





© 2015 IBM Corporation



Governments are being hit by multiple disruptive shifts – urbanization, aging populations and structure of the state economy



High competition for residents and businesses



Increase of dependency ratio



Change in citizen demands



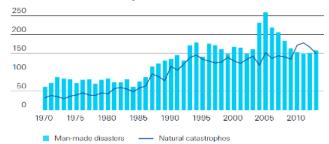
Increase in catastrophic events



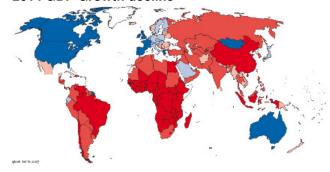
Unstable economic conditions

Source: [1] Swiss Re. 2014. Natural catastrophes and man-made disasters in 2013: large losses from floods and hail; Haiyan hits the Philippines. Sigma Study, No 1/2014.; [2] http://www.imf.org/external/Pubs/ft/weo/2014/01/pdf/text.pdf

Number of Catastrophic Events, 1970 - 20131



2014 GDP Growth decline²







As they advance along their transformational journey, government leaders focus on four key imperatives

Improve Health and Social Programs

Grow Sustainable Economies

Strengthen Security and Public Safety

Protect the environment and improve resilience

Support the public's health and welfare with personalized services

Improve fiscal management and revenue collection

Optimize data and support functions, create safer communities

Improve performance and resilience of critical infrastructure and ensure the sustainability of vital resources

Cloud technology provides the means to meet economic challenges to drive towards new growth

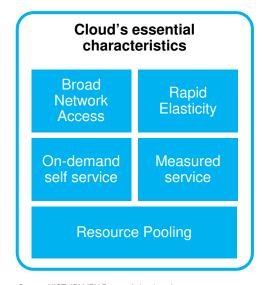
Sources: http://www-935.ibm.com/industries/government/





Cloud is a competitive asset that expands economic potential, promoting agility, security, efficiency and cost control

Cloud computing is a pay-per-use consumption and delivery model that enables real-time delivery of configurable computing resources



Source: NIST, IBM IBV Power of cloud study

Cloud empowers 6 benefits for governments

Speed, agility, and scalability

Security rich and highly available

Improved Efficiency

Cost optimized

Masked complexity

Ecosystem connectivity





What is driving IT demand in today's IT organizations?



"If you always do what you always did then you will always get what you always got." – Albert Einstein





SoftLayer – stands apart from other cloud vendors

The initial cloud revolution was based on assumptions such as:

All resources are virtualized

All resources are shared



But cloud computing needs have evolved.



... virtualization is a choice with a flexible set of options

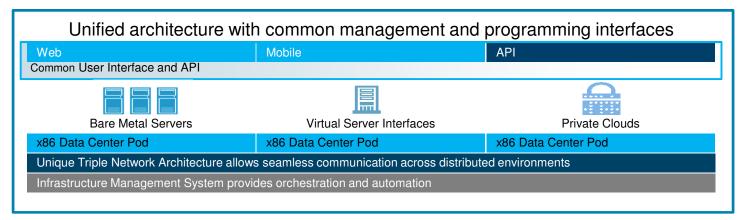
... resources can be shared, dedicated or **mixed**

But you have the ultimate





IBM SoftLayer is an Infrastructure as a Service offering, providing performance, flexibility and control through automation and APIs



Expanding Global
footprint of data
centers & points of presence
for direct access to network
backbone

Triple
network
architecture
with carrier-grade
reliability

Performance

Over
2,000
Gbps
of connectivity
between data centers





Transparency from network topology down to the hardware

With other cloud providers, you may only know:

- Zone
- Maybe the data center

With SoftLayer, you know:

- Data center
- Pod
- Rack
- Rack unit
- Power port

- Network port
- Server
- Firmware
- Serial numbers

The resulting **Visibility** means you can have more **CONTROL** over your application and its

performance

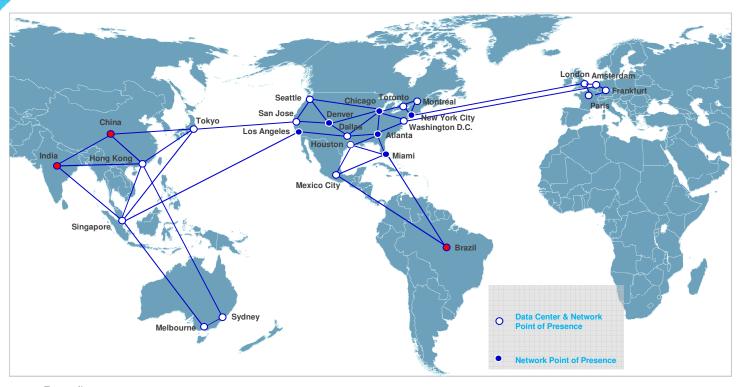
Plus

Audit trail of all actions and access to resources





Government clients use private network between data centers at no charge



Benefits:

- Geographically dispersed points of presence (PoPs) for connectivity of carrier-grade network backbone closer to the user
- PoPs and 2,000+ Gbps connectivity between data centers globally deliver exceptional bandwidth and connectivity
- No network charges between SoftLayer data centers or other IBM Cloud data centers







SoftLayer Security and Compliance Certifications











SOC2 Report

Safe Harbor Self-Assertion

FFIEC Risk Assessment HIPAA Ready Will sign BAA

PCI Ready AOC in place



STAR Certification







FedRAMP pATO



ISO 27001

Intel "Trusted Execution Technology" (Intel TXT) hardware based mechanism (intel) for verifying and reporting on platform trust.







Aligned with US Government Standards – based on NIST 800-53

<u>SP800-53</u> is a catalog of security and privacy controls originally defined for US federal government information systems

Developed in response to the US Federal Information Security
 Management Act (FISMA)

Management Controls

Security Assessment and Authorization Planning Program Management Risk Assessment System and Services Acquisition

Technical Controls

Access Control
Audit and Accountability
Identification and Authentication
System and Communications
Protection

Operational Controls

Awareness and Training
Configuration Management
Contingency Planning
Incident Response
Maintenance
Media Protection
Physical and Environment
Protection
Personnel Security
System and Information Integrity





Increased security and compliance for your Cloud environment



Protect Data

Identify vulnerabilities and help prevent attacks targeting sensitive data

Manage Access

Safeguard people, applications, and devices connecting to the cloud

Gain Visibility

Monitor the cloud for security breaches and compliance violations

Optimize Security Operations

Deliver a consolidated view of your security operations – at unprecedented speed and agility





SoftLayer Use Cases

Data Archive

Geo-diverse backup

Disaster Recovery

Video
Management
Law Enforcement

Web Application Hosting

Dev/Test





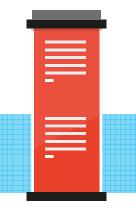
Solution Recap – getting started with SoftLayer in Georgia

Early cloud models—shared, virtualized resources—are no longer enough to achieve cloud's potential innovation.

With a SoftLayer solution, you can gain:

- The ability to combine bare metal or virtual servers, shared or dedicated environments, and public, private, hybrid or dynamic hybrid models.
- Automation and standardization across the data centers to strengthen security → in process of gaining highest levels of cloud federal certification across parts of SL
- <u>State of GA</u> IBM contract with Georgia Technology Authority (GTA) enables prospective clients to purchase SoftLayer without having to bid
- Clients not contractually obligated to remain on SoftLayer Ability to leave at any time with no penalty

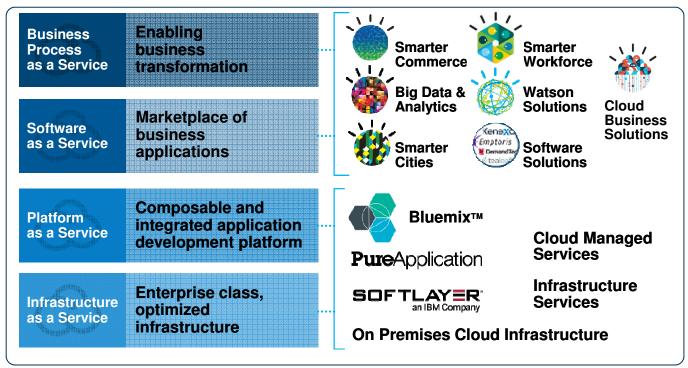
A SoftLayer solution is backed by the expanse of resources and long-standing innovation of IBM, delivering efficiency to your organization







Comprehensive 'stack' of cloud services provides innovation and workload opportunities on top of SoftLayer



Public. Private. Hybrid.



DevOps Tooling

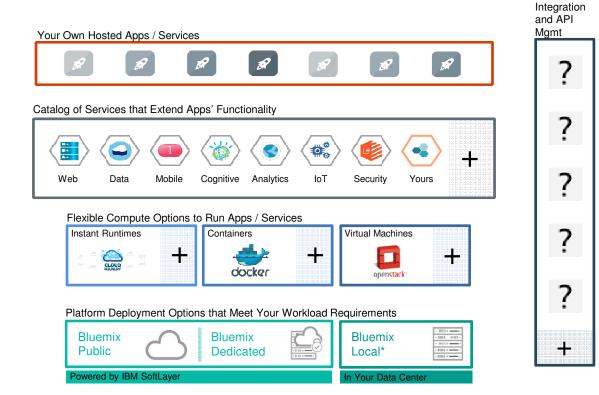
4

urban{code}

+



BlueMix allows you to more quickly develop and implement new apps



*Bluemix Local coming Summer 2015





Putting it all together: Why the Weather Channel chose IBM Cloud









Watson Analytics for Weather Cloud and Mobile App Developer Tools

Business and Operational Weather Expertise







Clients have many decisions and choices – from Traditional IT, Managed Services, & Cloud



IBM Cloud allows optimized workload 'placement in support of client strategies

Business Design	Service Levels	> Deployment
Considerations		
Outcomes	Availability	Flexibility
Economics	Security	Shared
Accountability	Performance	Location



© 2015 IBM Corporation